Appendix table 4-17

Domestic R&D paid for by sources located outside the United States and performed by the company, by source of funds, industry, and company size: 2010 (Millions of U.S. dollars)

| | | | Companies outside United States | | | | |
|--|---------------------|--------|---------------------------------|----------------|--------------|-------------|-----------|
| | 14100 | | 2 | Foreign parent | Unaffiliated | Foreign | |
| Industry and company size | NAICS code | Total | Subsidiaries ^a | companies | companies | governments | All other |
| All industries | 21–23, 31–33, 42–81 | 14,644 | 3,519 | 7,102 | 3,913 | 37 | 74 |
| Manufacturing industries | 31–33 | 9,332 | 2,789 | 4,051 | 2,432 | 31 | 29 |
| Food | 311 | D | D | D | D | 0 | D |
| Beverage and tobacco products | 312 | D | D | 0 | D | 0 | 0 |
| Textile, apparel, and leather products | 313–16 | 1 | 0 | 0 | D | 0 | D |
| Wood products | 321 | D | 0 | 7 | D | 0 | 0 |
| Paper manufacturing | 322 | D | 0 | 2 | D | 0 | 0 |
| Printing and related support activities | 323 | D | D | 2 | D | 0 | 0 |
| Petroleum and coal products | 324 | D | D | D | D | 0 | 0 |
| Chemicals | 325 | 4,058 | D | 1,882 | D | * | D |
| Basic chemicals | 3251 | 107 | 80 | D | * | 0 | 0 |
| Resin, synthetic rubber, fiber, and filament | 3252 | 10 i | 1 | * i | 9 i | 0 | 0 |
| Pesticide, fertilizer, and other agricultural chemical | | | | | | | |
| manufacturing | 3253 | D | D | D | 0 | 0 | 0 |
| Pharmaceuticals and medicines | 3254 | 3,581 | D | 1,683 | D | * | D |
| Soap, cleaning compound, and toilet preparation | 3256 | 4 | 4 | 0 | 0 | 0 | 0 |
| Paint, coating, adhesive, and other chemical | | | | | | | |
| manufacturing | 3255, 3259 | D | D | D | D | 0 | D |
| Plastic and rubber products | 326 | 227 i | D | 225 i | D | 0 | D |
| Nonmetallic mineral products | 327 | 3 | D | * | D | 0 | 0 |
| Primary metals | 331 | 34 | 0 | 34 | * | D | D |
| Fabricated metal products | 332 | D | 0 | D | D | 0 | D |
| Machinery | 333 | 457 | 172 | 200 | 82 | * | 3 |
| Agricultural implement manufacturing | 33311 | D | D | D | 1 i | 0 | * |
| Semiconductor machinery manufacturing | 333295 | D | 0 | 111 | D | 0 | 0 |
| Engine, turbine, and power transmission | | | | | | | |
| equipment manufacturing | 3336 | 57 | 0 | 10 | 47 | 0 | 0 |
| Other machinery manufacturing | other 333 | D | D | D | D | * | 2 |
| Computer and electronic products | 334 | 2,274 | 482 | 1,039 | 728 | 23 | 2 |
| Communication equipment | 3342 | 814 | D | 603 | D | * i | * i |
| Semiconductor and other electronic components | 3344 | 519 | 244 | 172 | 101 | 0 | 1 |
| Navigational, measuring, electromedical, | | | | | | | |
| and control instruments | 3345 | 528 | 82 | 219 | 203 | 23 | 1 i |
| Electromedical, electrotherapeutic, and | | | | | | | |
| irradiation apparatus manufacturing | 334510, 334517 | 190 | 65 | D | 89 | 0 | 0 |
| Search, detection, navigation, guidance, | | | | | | | |
| aeronautical, and nautical system and | | | | | | | |
| instrument manufacturing | 334511 | 301 | D | D | 112 | D | 0 |

Appendix table 4-17

Domestic R&D paid for by sources located outside the United States and performed by the company, by source of funds, industry, and company size: 2010 (Millions of U.S. dollars)

| Industry and company size | NAICS code | - | Compa | nies outside United Sta | | | |
|--|-------------------|-------|---------------------------|-------------------------|--------------|---------------------|-----------|
| | | Total | | Foreign parent | Unaffiliated | Foreign governments | |
| | | | Subsidiaries ^a | companies | companies | | All other |
| Other measuring and controlling device | | | | | | | |
| manufacturing | other 3345 | 37 | D | D | 2 | D | 1 |
| Other computer and electronic products | other 334 | 413 | D | 44 | D | 0 | 0 |
| Electrical equipment, appliances, and components | 335 | D | D | 54 | D | 0 | 0 |
| Transportation equipment | 336 | 661 | 112 | 324 | 217 | D | D |
| Automobiles, bodies, trailers, and parts | 3361, 3362, 3363 | 554 | D | D | D | 0 | 0 |
| Aerospace products and parts | 3364 | D | D | D | D | D | D |
| Aircraft, aircraft engine, and aircraft part | | | | | | | |
| manufacturing | 336411–13 | 101 | D | D | D | D | D |
| Guided missile, space vehicle, and related part | | | | | | | |
| manufacturing | 336414–15, 336419 | D | 0 | 0 | D | D | 0 |
| Military armored vehicle, tank, and tank | | | | | | | |
| component manufacturing | 336992 | 0 | 0 | 0 | 0 | 0 | 0 |
| Other transportation | other 336 | D | 0 | D | D | 0 | 0 |
| Furniture and related products | 337 | 0 | 0 | 0 | 0 | 0 | 0 |
| Miscellaneous manufacturing | 339 | 656 | D | 210 | D | 1 | D |
| Medical equipment and supply manufacturing | 3391 | 641 | D | 197 | D | 0 | D |
| Other miscellaneous manufacturing | 3399 | 15 | 0 | 13 | D | 1 | D |
| Nonmanufacturing industries | 21–23, 42–81 | 5,312 | 730 | 3,051 | 1,481 | 6 | 44 |
| Mining, extraction, and support activities | 21 | 587 | D | 0 | D | 0 | 0 |
| Utilities | 22 | 0 | 0 | 0 | 0 | 0 | 0 |
| Construction | 23 | 3 | 0 | 2 | * | 0 | 0 |
| Wholesale trade | 42 | D | 0 | 101 i | 0 | 0 | D |
| Retail trade | 44–45 | 0 | 0 | 0 | 0 | 0 | 0 |
| Electronic shopping and electronic auctions | 454111–12 | 0 | 0 | 0 | 0 | 0 | 0 |
| Other retail trade | other 44–45 | 0 | 0 | 0 | 0 | 0 | 0 |
| Transportation and warehousing | 48–49 | * i | 0 | * i | 0 | 0 | 0 |
| Information | 51 | 698 | 337 | 342 | D | 1 | D |
| Publishing | 511 | 520 | 200 | 305 | D | 1 | D |
| Newspaper, periodical, book, and directory | | | | | | | |
| publishers | 5111 | 0 | 0 | 0 | 0 | 0 | 0 |
| Software publishers | 5112 | 520 | 200 | 305 | D | 1 | D |
| Telecommunications | 517 | D | D | 30 | D | 0 | D |
| Data processing, hosting, and related services | 518 | 0 | 0 | 0 | 0 | 0 | 0 |
| Other information | other 51 | D | D | 8 i | 0 | 0 | 0 |
| Finance and insurance | 52 | D | D | 0 | 0 | 0 | 0 |
| Real estate, rental, and leasing | 53 | 11 | 11 | 0 | 0 | 0 | 0 |
| Professional, scientific, and technical services | 54 | 3,883 | D | 2,603 | 1,198 | D | D |
| Architectural, engineering, and related services | 5413 | 199 | 0 | 83 | 116 | * | 0 |

Appendix table 4-17

Domestic R&D paid for by sources located outside the United States and performed by the company, by source of funds, industry, and company size: 2010 (Millions of U.S. dollars)

| Industry and company size | NAICS code | | Companies outside United States | | | | |
|---|-----------------------|--------|---------------------------------|--------------------------|------------------------|---------------------|-----------|
| | | Total | Subsidiaries ^a | Foreign parent companies | Unaffiliated companies | Foreign governments | All other |
| Computer system design and related services | 5415 | 380 | D | 236 | 112 | 0 | D |
| Scientific research and development services | 5417 | 3,187 | 17 | 2,229 | 915 | 3 i | 22 |
| Biotechnology research and development | 541711 | 1,634 | 10 | 1,043 | 565 | 2 i | 15 |
| Physical, engineering, and life sciences (except | | | | | | | |
| biotechnology) research and development | 541712 | 1,551 | 7 | 1,184 | 351 | 1 | 7 |
| Social sciences and humanities research and development | 541720 | 2 | 0 | 2 | 0 | 0 | 0 |
| Other professional, scientific, and technical services | other 54 | 116 | D | 54 | 54 | D | D |
| Health care services | 621–23 | D | 0 | 0 | D | D | D |
| Other nonmanufacturing | 55–56, 624, 71–72, 81 | D | 0 | 2 | D | 0 | 0 |
| All companies (number of employees) | - | 14,644 | 3,519 | 7,102 | 3,913 | 37 | 74 |
| Small companies (number of employees) ^b | | | | | | | |
| 5–499 | - | 2,273 | 195 | 1,357 | 647 | 6 | 67 |
| 5–99 | - | 1,115 | 54 | 671 | 341 | 6 | 43 |
| 5–49 | - | 555 | * | 396 | 133 | 5 i | 22 |
| 5–9 | - | 47 | 0 | 18 | 17 | 2 i | 11 |
| 10–24 | - | 203 | * | 170 | 29 | 1 | 3 |
| 25–49 | - | 305 | 0 | 209 | 87 | 2 | 8 |
| 50–99 | - | 559 | 54 | 275 | 208 i | 1 | 22 |
| 100–249 | - | 685 | D | 403 | 228 | D | D |
| 250–499 | - | 473 | D | 284 | 78 | D | D |
| Medium and large companies (number of employees) | | | | | | | |
| 500–999 | - | 680 | 70 | 490 | 119 | 1 | * i |
| 1,000–4,999 | - | 5,565 | 717 | 2,808 | 2,036 | * | 4 |
| 5,000–9,999 | - | 2,210 | 323 | 1,706 | 181 | 0 | 1 |
| 10,000–24,999 | - | 2,137 | 784 | 737 | 616 | * | 0 |
| 25,000 or more | _ | 1,779 | 1,431 | 3 | 314 | 30 | 1 |

^{* = &}lt; \$500,000; D = data withheld to avoid disclosing operations of individual companies; i = > 50% of the estimate is a combination of imputation and reweighting to account for nonresponse.

NAICS = 2007 North American Industry Classification System.

NOTES: Detail may not add to total due to rounding. Industry classification is based on the dominant business code for domestic R&D performance where available. For companies that did not report business codes, classification used for sampling was assigned.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics and U.S. Census Bureau, Business R&D and Innovation Survey (2010).

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^a Subsidiaries are company-owned units outside the United States. Although all estimates include an adjustment to the weight to account for unit nonresponse, the estimates for domestic R&D paid for by foreign subsidiaries do not include item imputation. Caution should be used when comparing the subsidiaries estimates to other estimates presented in this table.

b Upper bound is based on the U.S. Small Business Administration's definition of a small business; the Business R&D and Innovation Survey does not include companies with fewer than five domestic employees.